



# Product Evaluation

WIN2182 | 0217

Engineering Services Program

*The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

*For more information, contact TDI Engineering Services Program at (800) 248-6032.*

**Evaluation ID:** WIN-2182

**Effective Date:** February 1, 2017

**Re-evaluation Date:** November 2017

**Product Name:** Aluminum Clad Wood StormForce Fixed Casement Window, Fin or Frame Installation, Impact Resistant

**Manufacturer:** Loewen Windows  
77 Highway 52 West  
Steinbach, Manitoba  
Canada R5G 1B2  
(800) 563-9367

## General Description:

System	Description	Label Rating	Design Pressure Rating
1	Aluminum Clad Wood StormForce Fixed Casement Window	CW-PG70 59 x 94 – FW FW-HC70 59 x 94 Missile Level D	±70 psf

## Product Dimensions:

System	Overall Size	Fixed Sash Size
1	59-1/16" x 94-1/2"	57" x 92-7/16"

**Product Identification (Certification Label on Window):**

System		
1	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Loewen
	Product Name	Casement Fixed Window StormForce
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-05; ASTM E 1996-05; Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the assemblies' design pressure rating.

**Installation (One of the following):**

System		
1	Type of Installation	Fin (Flange) Installation
	Wall Framing	Southern Yellow Pine dimension lumber
	Fasteners	No. 8 x 1-1/2" screws
	Fastener Location/Spacing	Approximately 6" from each corner and approximately 6" on center along the perimeter.
	Fastener Penetration	Minimum 1-1/2" penetration into wall framing
1	Type of Installation	Frame Installation
	Wall Framing	Southern Yellow Pine dimension lumber
	Fasteners	No. 10 x 3" screws
	Fastener Location/Spacing	<b>Side Jamb:</b> Approximately 6-1/2" from each corner and approximately 16-5/16" on center. <b>Head and Sill:</b> Approximately 5-1/2" from each corner and approximately 16-5/16" on center.
	Fastener Penetration	Minimum 1-1/2" penetration into wall framing
1	Type of Installation	Brickmould with Fin (Flange) Installation
	Wall Framing	Southern Yellow Pine dimension lumber
	Fasteners	No. 8 x 1-1/2" screws
	Fastener Location/Spacing	Secured to the nailing flange with fasteners located approximately 3-1/2" from each corner and approximately 6" on center along the perimeter.
	Fastener Penetration	Minimum 1-1/2" penetration into wall framing

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.